ABSTRACT OF THE DISCLOSURE

The present invention enables a flexible system for representing relationships among computing resources, assigning them strengths, and versioning them over time. One advantage is that all of the various ways that these entities are named in the real world can be normalized into a common model of identifiers (IDs) and types such that universal manipulations by class are possible without losing the capability to present the resulting information back with the original entity names or even with multiple equivalent names.

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